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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,848	04/09/2004	Lawrence V. Tannenbaum	СНРРМ 03-22 03	8673
21210	7590 12/20/2006 HE STAFF JUDGE ADVO	EXAMINER		
U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND ATTN: MCMR-JA (MS. ELIZABETH ARWINE) 504 SCOTT STREET FORT DETRICK, MD 21702-5012			LIN, JERRY	
			ART UNIT	PAPER NUMBER
			1631	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		12/20/2006	PAPER	

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If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<u> </u>	Application No.	Applicant(s)			
	10/820,848	TANNENBAUM, LAWRENCE V.			
Office Action Summary	Examiner	Art Unit			
	Jerry Lin	1631			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the co	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period verified to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>10 O</u>	<u>ctober 2006</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL. 2b) This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims	•				
4) ⊠ Claim(s) <u>1-13</u> is/are pending in the application. 4a) Of the above claim(s) <u>7-12</u> is/are withdrawr 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-6, 13</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	n from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicationity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

Application/Control Number: 10/820,848 Page 2

Art Unit: 1631

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, claims 1-12 in the reply filed on October 10, 2006 is acknowledged. Furthermore, the Applicant's election without traverse of Species A (sperm count, claim 4) is also acknowledged. The traversal is on the ground(s) that Group II (claim 13) is a narrower process within the scope of Group I (claim 1). This is found persuasive, and the Groups have been rejoined. In light of Group II, Species A-C has also been rejoined with the instant claims. However, Species D remains an unelected invention. It is noted that the species election was mad without traverse.

The requirement is still deemed proper and is therefore made FINAL.

Status of the Claims

Claims 1-6 and 13 are under examination.

Claims 7-12 are withdrawn as being drawn to an unelected species.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-6 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 1631

4. Regarding claims 1 and 13, it is unclear to what "receptors" refers. One interpretation of receptors is a protein or other biological product found in a cell.

Another interpretation of receptors is an organism living in the site that "receives" the environment. For purposes of this examination, the latter interpretation will be used.

Page 3

- 5. Claims 1 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: how comparing the results of the sperm analyses is related to the ecological risk to receptors. The preamble states that the purpose of the method is to determine the ecological risk to receptors. However, the instant claims do not include any step of assessing ecological risk or how ecological risk is a derived form comparing sperm analysis.
- 6. Instant claim 13, recites the limitation of "two burning pads." It is unclear what this term means. The instant specification does not define the term. A search of the prior art has not revealed any accepted meaning for the term. For purposes of this examination, the Examiner will interpret this term to mean two sites.
- 7. The term "high" and "low" in claim 13 is a relative term, which renders the claim indefinite. The term "high" and "low" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably appraised of the scope of the invention.

Art Unit: 1631

Claim Rejections - 35 USC § 102

Page 4

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1, 2, 3, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by leradi et al. (Environmental Pollution (1996) Volume 92, number 3, pages 323-328).

The instant claims are drawn to a method for assessing the risk to receptors by obtaining mice from a contaminated site and a reference site, performing sperm analysis on the mice, comparing the sperm analysis of the mice from the reference site to the sperm analysis of the mice form the contaminated site. It is noted that the claim is unclear as to what "receptors" is referring. For purposes of this Examination, the term "receptors" is interpreted to mean an organism living in the site that "receives" the environment.

Regarding claims 1, 2, 3, and 6, leradi et al. teach a method for determining the ecological risk to receptors by obtaining a sample of mice from a contaminated site (page 324, left column); obtaining mice from a reference site (control group) (page 324, left column); performing sperm analysis on all the mice (page 324, left column); comparing the results of the mice (page 324, left column; page 325, figure 1; page 326, left column).

Art Unit: 1631

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 1, 4, 5, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over leradi et al. (Environmental Pollution (1996) Volume 92, number 3, pages 323-328) in view of Sharma et al. (Reproductive Toxicology (1996) Volume 10, number 2, pages 153-159).

The instant claims are drawn to a method for assessing the risk to receptors by obtaining rodents from two sites with high hazard quotients for at least one chemical, and a site with low hazard quotients for at least one chemical; removing the vas deferens from rodents to assess sperm motility; removing the epididymis from the rodents to assess sperm count and sperm abnormality; removing the epididymis from the rodents to assess sperm morphology; and comparing the results from the rodents from the different sites. For purposes of this Examination, the term "receptors" is interpreted to mean an organism living in the site that "receives" the environment.

Regarding claims 1 and 13, leradi et al. teach a method for determining the ecological risk to receptors by obtaining a sample of mice from two contaminated sites with high hazard quotients (page 324, left column); obtaining mice from a reference site with low hazard quotients (control group) (page 324, left column); assessing sperm abnormality and morphology by obtaining a sample from the epididymis (page 324, left

Art Unit: 1631

column; page 325, figure 1; page 326, left column); comparing the results of the mice (page 324, left column; page 325, figure 1; page 326, left column).

However, leradi et al. does not teach removing the vas deferens to assess sperm motility or assessing sperm count.

Regarding claims 4, 5, and 13, Sharma et al. teach a method of determining the toxicity of a chemical in mice by removing the vas deferens and epididymis to assess sperm count and motility (abstract; page 156).

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the methods of leradi et al. and Sharma et al. leradi et al. and Sharma et al. are both concerned with the effects of environmental pollution on human and animal systems (abstract of both). In particular they are concerned with metals such as lead or mercury (abstract of both). leradi et al. states that wild rodents are useful as bioindicators to detect local contamination (page 327, right column). Given that Sharma et al. are concerned with determining that toxic effects of mercury in animal systems (pate 153, left column), one of ordinary skill in the art would seek to use a known bioindicator to detect the local contamination of mercury at a particular site. Thus one of ordinary skill in the art would be motivated to combine the methods of leradi et al. and Sharma et al. to trap wild mice and conduct the sperm analysis suggested by leradi et al. and Sharma et al. to determine the pollution at a site.

Art Unit: 1631

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Lin whose telephone number is (571) 272-2561. The examiner can normally be reached on 10:00am-6:30pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang, can be reached on (571) 272-0811. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Art Unit: 1631

Page 8

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MICHAEL BORIN, PH.D. PRIMARY EXAMINER

JL